

Table S4. Putative ABC transporters embedded in Non Ribosomal Peptide (NRP) Biosynthetic Gen Clusters (BGC) retrieved from the Minimum Information about a Biosynthetic Gene cluster (MIBiG) repository (<https://mibig.secondarymetabolites.org>) and known ABC transporters not associated with NRP BGC with sequence identity of at least 32% to CesC, based on BLASTP (<https://blast.ncbi.nlm.nih.gov/Blast.cgi>) search. Abbreviations: PK: polyketide; n.a: not applicable.

MIBiG Protein	Description	MIBiG Cluster	MIBiG Product	% ID
WP_000626565.1	BerA (<i>Bacillus thuringiensis</i>)	n.a.	n.a.	48
ORC16572.1	ABC	BGC0001341	putative valinomycin BGC from <i>Rothia nasimurium</i>	46
WP_019032750.1	ABC	BGC0001331	BE-435471 BGC (cyclic depsipeptide + polyketide: modular type I) from <i>Salinispora arenicola</i> CNR107	41
WP_047890617.1	ABC	BGC0001330	BE-43547A1 BGC (cyclic depsipeptide + polyketide: modular type I) from <i>Micromonospora</i> sp. RV43	40
WP_003948917.1	ABC	BGC0001792	surugamide A BGC from <i>Streptomyces albidoflavus</i>	39
BAH43868.1	ABC	BGC0000367	gramicidin BGC from <i>Brevibacillus brevis</i> NBRC 100599	37
ALV86877.1	Tlo31	BGC0001406	telomycin BGC from <i>Streptomyces canus</i>	36
CAM56766.1	ExpB	BGC0000354	friulimicin BGC from <i>Actinoplanes friuliensis</i>	34
QBG38790.1	Atr29	BGC0001975	atratumycin BGC from <i>Streptomyces atratus</i>	34
X73633.1	TnrB2 (<i>Streptomyces longisporoflavus</i>)	n.a.	n.a.	34
CCB53259.1	LugE	BGC0001393	lugdunin BGC from <i>Staphylococcus lugdunensis</i> N920143	33
ADG27347.1	AcmrA	BGC0000296	actinomycin D BGC from <i>Streptomyces anulatus</i>	33
BAX64249.1	Iga8	BGC0001623	ishigamide BGC (PK-NRP hybrid) from <i>Streptomyces</i> sp. MSC090213JE08	33

CAJ34360.1	TioD	BGC0000445	thiocoraline BGC from <i>Micromonospora sp.</i> <i>ML1</i>	33
ADG27368.1	AcmW	BGC0000296	actinomycin D BGC from <i>Streptomyces</i> <i>anulatus</i>	33
WP_028678143.1	DrrA	BGC0001228	retimycin A BGC from <i>Salinispora arenicola</i> <i>CNT005</i>	32
AAD21213.1	BcrA	BGC0000310	bacitracin BGC from <i>Bacillus licheniformis</i>	32
CCB53261.1	LugG	BGC0001393	lugdunin BGC from <i>Staphylococcus</i> <i>lugdunensis N920143</i>	32
WP_014570413.1	NisF (<i>Lactococcus</i> <i>lactis</i>)	n.a.	n.a.	32
AAS78451.1	BcrA (<i>Enterococcus</i> <i>faecalis</i>)	n.a.	n.a.	32